	Application No.	Application No. Applicant(s)		
Notice of Allowability	10/708,223	KER ET AL.		
	Examiner	Art Unit		
	Shawn Riley	2838		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	s application. If not includ ation will be mailed in due	led course. <b>THIS</b>	
1. X This communication is responsive to feb04 filing.				
2. $\boxtimes$ The allowed claim(s) is/are <u>1-15</u> .				
3. $igotimes$ The drawings filed on <u>04 February 2004</u> are accepted by the second contract of the second contrac	he Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposition of the proper No./Mail OF and/or INFORMATION about the deposition of the proper No./INFORMATION about the deposition of the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document sheet in the priority documents have a priority document have a priority document have a priority document have a pri	e been received. e been received in Application Note the attached EXAMILES reason(s) why the oath or dest be submitted. son's Patent Drawing Review (Fig. 2). s Amendment / Comment or in the date header according to 37 CFR 1.	this national stage applications and the results of the results of the results of the results of the office action of the results of the resu	equirements NOTICE OF	
<ul> <li>7. DEPOSIT OF and/or INFORMATION about the deponsation attached Examiner's comment regarding REQUIREMENT</li> <li>Attachment(s)</li> <li>1. Notice of References Cited (PTO-892)</li> <li>2. Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ul>	FOR THE DEPOSIT OF BIOLO	GICAL MATERIAL.  nal Patent Application (PT		
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date mar04</li> </ol>	Paper No./Mai	Paper No./Mail Date  7.		
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Sta	tement of Reasons for Alle	owance	
of Biological Material	9. 🔲 Other	\$		
	1	SHAWN RILEY PRIMARY EXAMINER		

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## **DETAILED ACTION**

## Reasons for Allowance

- 1. The following is an examiner's statement of reasons for allowance: No prior art uncovered anticipates or renders obvious applicant(s) claimed bandgap reference circuit including a gate of the second transistor (M2, M2) connected to a gate of the first transistor (M1, M1) and the output of the operational amplifier (62, 82)., a third resistor (R1a) and a fourth resistor (R1b) connected in series at the first node (n1), the third and fourth resistors (R1a, R1b) connected in parallel with a first diode (Q1, Q1) between a first current source (11) and a second voltage, and a fifth resistor (R2a) and a sixth resistor (R2b) connected in series at the second node (n2), the fifth and sixth resistors (R2a, R2b) connected in parallel with a second diode (Q2, Q2) between a second current source (12) and the second voltage.
- 2. No prior art uncovered anticipates or renders obvious applicant(s) claimed bandgap reference circuit including the second node (n2) being connected to the negative input end; a gate of the second transistor (M2) connected to a gate of the first transistor (M1) and the output of the operational amplifier (62); a third resistor (R1a) and a fourth resistor (R1b) connected in series at the first node (n1), the third and fourth resistors (R1a, R1b) connected in parallel with a first diode (Q1) between a first current source (11) and ground; and a fifth resistor (R2a) and a sixth resistor (R2b) connected in parallel with a second node (n2), the fifth and sixth resistors (R2a, R2b) connected in parallel with a second diode (Q2) between a second current source (12) and ground.
- 3. No prior art uncovered anticipates or renders obvious applicant(s) claimed bandgap reference circuit including a gate of the second transistor (M2) connected to a

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gate of the first transistor (M1) and the output of the operational amplifier (82); a third resistor (R1a) and a fourth resistor (R1b) connected in series at the first node (n1), the third and fourth resistors (R1a, R1b) connected in parallel with a first diode (Q1) between a first current source (11) and a second voltage set significantly higher than ground, and a fifth resistor (R2a) and a sixth resistor (R2b) connected in series at the second node (n2), the fifth and sixth resistors (R2a, R2b) connected in parallel with a second diode (Q2) between a second current source (12) and the second voltage.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Allowable Subject Matter

1. Claims 1-15 are allowable over the prior art of record.

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## Conclusion

Any inquiry from other than the applicant/attorney of record concerning this communication or earlier communications from the Examiner should be directed to the Patent Electronic Business Center (EBC) at 1.866.217.9197. Any inquiry from a member of the press concerning this communication or earlier communications from the Examiner or the application should be directed to the Office of Public Affairs at 703.305.8341. Any inquiry from the applicant or an attorney of record concerning this communication or earlier communications from the Examiner should be directed to Examiner Riley whose telephone number is 571.272.2083. The Examiner can normally be reached Monday through Thursday from 7:30-6:00 p.m. Eastern Standard Time. The Examiner's Supervisor is Mike Sherry who can be reached at 571.272.2084. Any inquiry about a case's location, retrieval of a case, or receipt of an amendment into a case or information regarding sent correspondence to a case should be directed to 2800's Customer Service Center at 571.272.2815. Any papers to be sent by fax MUST BE sent to fax number 703.872.9306. Any inquiry of a general nature of this application should be directed to the Group receptionist whose telephone number is 571.272.2800. Status information of cases may be found at <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a> wherein unpublished application information is found through private PAIR and published application information is found through public PAIR. Further help on using the PAIR system is available at 1.866.217.9197 (Electronic Business Center).

December 04

Shawn Riley Primary Examiner